BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Chikkabettahalli colony in Ward No. 03

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. (P.No-143, I.No-19.1)								
	Desilt								
	Main Road Drain								
	For Drain	Cum	2	193.00	0.50	0.60	115.80		
	Chikkabettahalli								
	Left Side, Cross Road -1		2	43.00	1.20	1.00	103.20		
	Left Side, Cross Road -2		2	34.00	1.20	1.00	81.60		
	Left Side, Cross Road -3		2	37.00	1.20	1.00	88.80		
	Left Side, Cross Road -4		1	88.00	1.10	1.00	96.80		
	Right Side, Cross Road -1		2	39.00	1.20	1.00	93.60		
	Right Side, Cross Road -2		1	38.00	1.10	1.05	44.17		
	Right Side, Cross Road -3		2	33.00	1.10	1.00	72.60		
	Culvert		11	5.60	2.00	1.20	147.84		
							844.41	215.28	**181783.83**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10 Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Left Side, Cross Road -1		2	43.00	1.20	0.15	15.48		
	Left Side, Cross Road -2		2	34.00	1.20	0.15	12.24		
	Left Side, Cross Road -3		2	37.00	1.20	0.15	13.32		
	Left Side, Cross Road -4		1	88.00	1.10	0.15	14.52		
	Right Side, Cross Road -1		2	39.00	1.20	0.15	14.04		
	Right Side, Cross Road -2		1	38.00	1.10	0.15	6.27		
	Right Side, Cross Road -3		2	33.00	1.10	0.15	10.89		
	Culvert		11	5.60	2.00	0.15	18.48		
	Concrete Platform		1	20.00	10.00	0.20	40.00		
			1	20.00	5.00	0.20	20.00		
			1	20.00	5.00	0.20	20.00		
			1	20.00	4.80	0.20	19.20		
	For Kerb Stone								
	Main Road Drain								
			2	182.00	0.20	0.10	7.28		
	Basic Rate Rs.=	5115.00					**211.72**	5421.90	**1147924.67**
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Chikkabettahalli								
	Bottom slab								
	Left Side, Cross Road -1		2	43.00	1.10	0.15	14.19		
	Left Side, Cross Road -2		2	34.00	1.10	0.15	11.22		
	Left Side, Cross Road -3		2	37.00	1.10	0.15	12.21		
	Left Side, Cross Road -4		1	88.00	0.90	0.15	11.88		
	Right Side, Cross Road -1		2	39.00	1.10	0.15	12.87		
	Right Side, Cross Road -2		1	38.00	0.90	0.15	5.13		
	Right Side, Cross Road -3		2	33.00	0.90	0.15	8.91		
	side walls								
	Left Side, Cross Road -1		4	43.00	0.15	0.60	15.48		
	Left Side, Cross Road -2		4	34.00	0.15	0.65	13.26		
	Left Side, Cross Road -3		4	37.00	0.15	0.60	13.32		
	Left Side, Cross Road -4		2	88.00	0.15	0.60	15.84		
	Right Side, Cross Road -1		4	39.00	0.15	0.60	14.04		
	Right Side, Cross Road -2		2	38.00	0.15	0.60	6.84		
	Right Side, Cross Road -3		4	33.00	0.15	0.60	11.88		
							167.07		
	Basic Rate Rs.=	6670.00			Net Qty		**167.07**	7070.20	**1181218.31**
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Steel For Drain	Tonne		167.07	0.070	--	11.69		
							11.69	73992.24	**865331.85**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	KSRB 5.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13. (P.No-25,I No-5.6) KSRB 5.2-3 : - do - cement mortar 1:6 KBS 5.1.13								
	For SSM Drain	Cum							
	Chikkabettahalli								
	Main Road Drain								
	Culvert		4	182.00	0.40	0.75	218.40		
			22	5.60	0.45	1.00	55.44		
	Basic Rate Rs.=	4596.00					**273.84**	4871.76	**1334082.76**
	Add 6% A.W Rs. =	275.76							
	Total Rate Rs. =	**4871.76**							
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No-13,I No-4.6)								
	For Drain	Cum							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Chikkabettahalli								
	Coping								
	Main Road Drain								
	Culvert		4	182.00	0.45	0.10	32.76		
	Bed concrete		22	5.60	0.45	0.10	5.54		
	Main Road Drain								
	Culvert		2	182.00	0.60	0.15	32.76		
			11	5.60	0.60	0.15	5.54		
	Basic Rate Rs =	5422.00					**76.61**	5747.32	**440290.69**
	Add 6% A.W Rs. =	325.32							
	Total Rate Rs. =	**5747.32**							
7	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P No-27,I No-5.30)								
		Nos							
	Main Road Drain		2	182.00			364.00		
	Basic Rate Rs =	408.00					**809.00**	432.48	**349876.32**
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
8	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8 (P No-180,I No-24.1)								
	Main Road Drain	Sqm	2	182.00	0.40		145.60		
	Basic Rate Rs =	80.00					**145.60**	84.80	**12346.88**
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
9	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Chikkabettahalli								
	Left Side, Cross Road -1		2	43.00	0.90	--	77.40		
	Left Side, Cross Road -2		2	34.00	0.90	--	61.20		
	Left Side, Cross Road -3		2	37.00	0.90	--	66.60		
	Right Side, Cross Road -1		1	88.00	0.75	--	66.00		
	Right Side, Cross Road -2		2	39.00	0.90	--	70.20		
	Right Side, Cross Road -3		1	38.00	0.75	--	28.50		
	Main Road Drain		2	33.00	0.75	--	49.50		
	Deduct available slabs		2	182.00	1.20	--	436.80		
			-12	0.60	1.20	--	-8.64		
							847.56	2337.00	**1980747.72**
10	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert	Sqm	11	4.90	1.50	--	**80.85**	5418.00	**438045.30**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
11	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications.(I No-19.14,P No-143)								
	For Concrete Road	Cum							
	Concrete Platform		1	20.00	10.00	0.35	70.00		
			1	20.00	5.00	0.35	35.00		
			1	20.00	5.00	0.35	35.00		
			1	20.00	4.80	0.35	33.60		
							173.60	63.94	11099.98
	Basic Rate Rs.=	41.00							
	Add 6% A.W Rs. =	2.46							
	Sub Total =	43.46							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**63.94**							
12	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Concrete Platform		1	20.00	10.00	0.150	30.00		
			1	20.00	5.00	0.150	15.00		
			1	20.00	5.00	0.150	15.00		
			1	20.00	4.80	0.150	14.40		
							74.40	5210.96	387695.42
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
13	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Concrete Platform		1	20.00	10.00		200.00		
			1	20.00	5.00		100.00		
			1	20.00	5.00		100.00		
			1	20.00	4.80		96.00		
							496.00	72.08	35751.68
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Add GST @ 12%						Sub Total 1 Rs.		8366195.42
	Add KRIDL @ 4%								1003943.45
	DPR & PMC Charges including GST								334647.82
									195000.00
	Miscellaneous & Rounding off						Sub Total 2 Rs.		9899786.68
									213.32
	CERTIFICATE:							Total Rs.	9900000.00

1 The work spot has been inspected by me and the work is found to be necessary
2 The estimate is prepared as per PW, P&IWTD S R Bangalore circle for the year 2018-2019
3 The Provisions made in the estimate are quite necessary and adequate
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 03
BBMP

Assistant Executive Engineer
Yelahanka Newtown Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

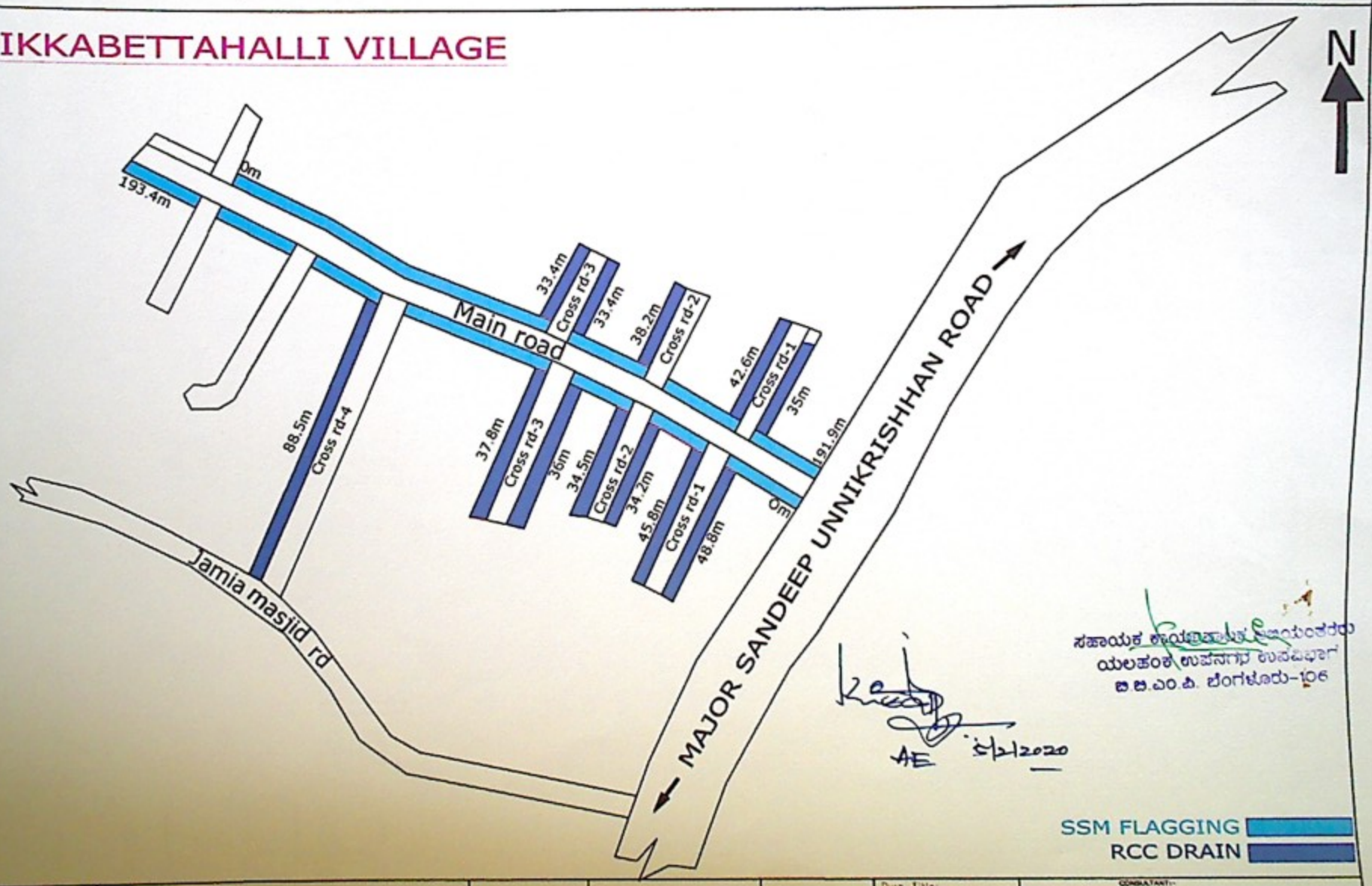
Administrative Sanction for Rs. 99.00 Lakhs
Ninety Nine Lakhs only
is accorded under head P-3727
Chief Minister Nava Nagarothana
grants 2018-19
Registered as CE I C
to conditions contained in
No. EE.LYNK/AS/42/2018-19 Dt: 28/10/2019

Executive Engineer

Technical Sanction
Accorded For R.SSS in Parliament
Head of A/C P3727
CER NO : 112 Dt: 28.10.2019

ACE (YNK).

NAME OF WORK- Improvements to roads and drains at Chikkabettahalli colony in Ward No. 03



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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

AE 5/12/2020

CLIENT					Dwg Title:	CONSULTANT:
BRUHAT BANGALORE MAHANAGARA PALIKE		Assitante Engineer	Assitante Executive Engineer	Executive Engineer		NEWZEN CONSULTANTS BANGALORE #13,10,MAIN 2nd CROSS,JNANAJYOTHI NAGAR, JNANA BHARATHI, BANGALORE-560 056 PH-8792620231, E-mail:kumar.vinay631@gmail.com